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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/849,793	05/04/2001	Shyh-Mei F. Ho	SVL920010041US1	1989
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PALO ALTO, CA 94303				
EXAMINER				
PRICE, NATHAN E				
ART UNIT		PAPER NUMBER		
2194				
NOTIFICATION DATE		DELIVERY MODE		
06/02/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

09/849,793

Applicant(s)

HO ET AL.

Examiner

NATHAN PRICE

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 February 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- 7) ☐ Paper No(s)/Mail Date: _____

DETAILED ACTION

1. Claim 1 is pending.
2. This Office Action is in response to communications received 29 February 2008. Previous objections and rejections not included in this Office Action have been withdrawn.

Response to Arguments

3. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Shachar (US 5,761,656) in view of Deborin (see PTO-892 mailed 24 August 2007) and Hardman et al. (US Pat. 6,067,579; "Hardman").

5. As to claim 1, Ben-Shachar discloses a method of processing an application request on an end user application and an application server (abstract; col. 5 lines 2 - 16) comprising:

a) initiating the application request on the end user application in a first language with a first application program wherein the end user application is a web browser (col. 5 lines 6 - 33);

b) transmitting the application request to the server and converting the application request from the first language of the first end user application to a form for the language running on the application server (col. 5 lines 3 - 12), wherein the end user application is connected to the application server through a connector (col. 5 lines 2 - 16, execution manager 150);

c) processing said application request on the application server (col. 5 lines 6 - 15);

d) transmitting a response to the application request from the application server to the end user application, and converting the response to the application request from the language running on the application server to the first language of the first end user application (col. 5 lines 12- 17); and

e) wherein the connector comprises invocation metamodel data, application domain interface metamodel data, transaction message metamodel data, and type descriptor metamodel data (col. 4 lines 30 - 36; col. 5 lines 2 - 12, 39 - 50), wherein the connector is configured to (i) convert the application request from the first language of the first end user application as a source language to the language running on the

application server as a target language (col. 5 lines 6 - 12), and (ii) convert a response to the application request from the language running on the application server as a source language to the first language of the first end user application as a target language (col. 5 lines 13 - 16), each comprise:

- 1) invoking connector metamodels of respective source language and target language ("mapping file" col. 5 lines 6 - 15);

- 2) populating the connector metamodels with metamodel data of each of the respective source language and target language, the metamodel data of the target language including a map, a mapset, and a mapfield (Figures 3 and 10; col. 5 lines 29 - 48; col. 9 lines 10 - 22); and

- 3) converting the source language to the target language (col. 9 lines 10- 22).

6. Ben-Shachar fails to specifically disclose a mapping support language, a web server and connector and metamodel details. However, Deborin discloses a mapping support language (p. 139 ¶ 1). Deborin also discloses a web server as claimed (Figs. 17 and 18; §1.4). Deborin also discloses wherein the connector comprises invocation and transformation capabilities, wherein the connector comprises a language metamodel to define data structures that represent connector interfaces, wherein the language metamodel indicates a source language, a target language, and a mapping between the source language and the target language, wherein the language metamodel comprises declaration text that is not editable, wherein the connector

comprises a type descriptor metamodel that is language neutral and that defines a physical realization, a storage mapping, and a plurality of constraints, wherein the type descriptor metamodel provides a physical representation of individual fields of a given data structure, wherein the type descriptor metamodel provides data types mapping between languages (Figs. 17 – 21; §1.3; 1.4; 1.5; 5.1.1; 5.4.5.2; 6.1). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine these references because both references focus on providing server processing to clients by mapping requests between formats of the client and server.

7. Ben-Shachar fails to specifically teach the metamodel data capturing with 3270 screen formatting for 3270-based applications as claimed. However, Hardman teaches capturing screen formatting to create the transformation rules. Therefore, it would have been obvious to have the metamodel data capturing with 3270 screen formatting for 3270-based applications to provide conversion information. It would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to combine these teachings because Ben-Shachar teaches using metamodel data to provide communication compatibility and Hardman teaches how to create the information required to provide communication compatibility.

Conclusion

8. The prior art made of record on the P.T.O. 892 that has not been relied upon is considered pertinent to applicant's disclosure. Careful consideration of the cited art is required prior to responding to this Office Action, see 37 C.F.R. 1.111(c).

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHAN PRICE whose telephone number is (571)272-4196. The examiner can normally be reached on 6:00am - 2:30pm, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/
Supervisory Patent Examiner, Art Unit 2195

NP